

Centre of Excellence in Space Sciences, India
Indian Institute of Science Education and
Research Kolkata
Mohanpur-741246
West Bengal
Citizenship: Indian
Gender: Female



Sanchita Pal

Field of research:

The solar origin of space weather and its terrestrial impact and an overall assessment of the pathways through which space weather impacts are mediated and thus to predict the space weather disturbances.

Name of institute:

Center of Excellence in Space Sciences, India, IISER Kolkata.

Pursuing degree:

Ph.D.

Completed degree (in descending order):

M.Tech in Radio Physics and Electronics (Specialization: Space science).

B.Tech in Electronics and Communication Engineering.

Poster presentations :

- Poster on ‘Investigating the cause of fewer geomagnetic storm during the higher peak of the double-peaked sunspot cycle 24’ in the international conference, ‘Science for Space weather’, held on January, 2016, Goa, India.

Schools/Workshops Attended (in descending order):

- CCMC Space weather Concepts and Tools. (2016).
- **IRIS-5 workshop** held on Inter- University Institute of Astronomy and Astrophysics (IUCAA), Pune.
- **IMPRESS-2015 (Inspiring the Minds of Post-graduates for Research in Earth and Space Sciences - 2015)** organized by Indian Institute of

Purpose of study in the research field :

Space weather impact is one of the serious issues in recent world. Many significant models, systems have been generated to observe and analysis space weather in broad way. Now the most important thing is to predict the space weather some time before so that measurements can be taken for the hazards. My purpose of study is to contribute in predicting the space weather impacts by observing their sources on solar surface with the help of some predefined models.

Other details:

Awards & Honour (i.e.NET/SLAT/JEST/GATE/Any equivalent):

96.5 percentile in GATE-2013.

Computer Operating and/or Programming Skill:

Programming Language: 'C'.

MATLAB, SSIDL, IDL.

Language Skill:

English, Hindi, Bengali.

Permanent communication address:

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About me:

Sanchita is a research scholar in Center of Excellence in Space Sciences, India IISER,Kolkata. She did her masters with the specialization on ‘Space science’. During her Masters she did her one year project under the joint supervision of Dr. Dibyendu Nandi from IISER Kolkata and Dr. Ashik Paul from University of Calcutta on the causes and consequences of space weather events. It covered the source of space weather disturbances on solar surface and their features parameters and space weather disturbances effect on Earth’s upper atmosphere i.e., ionosphere. The work was almost based on observations and statistical analysis of those observations.

Currently she is trying to use different models available for different domain of space weather (i.e., solar , heliosphere, magnetosphere (inner and outer), and ionosphere) and trying to construct a typical simple model that will help to describe and predict space weather event starting from its source on solar surface upto its effect on ionosphere.